

Chapter 8 Final Review

Homework Answers

Pg 697 - #1-9, 11-13, 15, 17-18, 20-24

1. 10

2. 36

3. 2

4. 6

5. $\frac{9}{2}$

6. 21

7. $x = \frac{80}{3}; y = 6; z = \frac{16}{3}$

8. $x = \frac{3\sqrt{10}}{5}; y = 2\sqrt{10}$

9. $x = 30; y = 4$

10. $x = 12; y = 8$

11. Yes; $\triangle QCT \sim \triangle MCP$ by SAS~

12. Yes; $\triangle XZY \sim \triangle EWN$ by AA~

13. no

15. $\frac{117}{10}$

17. 4

18. $\frac{72}{5}$

20. 20

21. $\frac{56}{3}$

22. $5 : 8$ and $25 : 64$

23. $4 : 3$ and $16 : 9$

24. $5 : 16$ and $25 : 256$